

Amendments to the Claims:

This listing of claims replaces all prior versions, and listings, of claims in the application:

Listing of Claims:

1-20. (Cancelled).

21. (Currently Amended) A method in a mobile telecommunication network for providing a first radio network controlling unit with positioning information for a mobile terminal located within a cell and served by a radio base station covering said cell, the cell being identifiable by means of a cell Geographical Area Information (GAI), the method comprising the steps of:

transmitting a cell GAI, which is associated with a portion of the cell wherein the mobile terminal is located, from a second radio network controlling unit that controls the resources of said radio base station to the first radio network controlling unit that controls the connection of said radio base station to the mobile station, wherein the cell portion is covered by one antenna beam transmitted from said radio base station, whereby the cell portion is identifiable by identification of the antenna beam, wherein each antenna beam covers a respective cell portion and is distinguished by means of a phase reference provided by a pilot channel or by a downlink dedicated physical channel comprising dedicated pilots;

wherein the pilot channel is the Secondary Common Pilot Channel (S-CPICH);

wherein the cell portion covered by the antenna beam 1) is determined by location points describing the geographical coordinates of said antenna beam, or 2) consists of an area that extends from the Radio Base Station to the cell border within a detected angle of arrival of signals from the mobile terminal;

wherein the mobile telecommunication network is a UMTS network and the first radio network controlling unit is a first Radio Network Controller, RNC, and the second radio network controlling unit is a second Radio Network Controller, RNC;

wherein the first RNC is a serving RNC and the second RNC is a drift RNC;

wherein the drift RNC transmits the Cell Portion GAI to the serving RNC over the Iur interface; and,

wherein the Cell Portion GAI is an information element of the RNSAP-protocol.

22-29. (Cancelled).

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